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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/068,599	02/06/2002	Ricky Merle Peterson	ROC920010319US1	8298
46296 7590 01/25/2008 MARTIN & ASSOCIATES, LLC P.O. BOX 548			EXAMINER	
			. TRUONG, CAMQUY	
CARTHAGE, MO 64836-0548			ART UNIT	PAPER NUMBER
			2195	
			MAIL DATE	DELIVERY MODE
			01/25/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

MN

	Application No.	Applicant(s)				
	10/068,599	PETERSON, RICKY MERLE				
Office Action Summary	Examiner	Art Unit				
	Lewis A. Bullock, Jr.	2195				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DATE - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period was really received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE!	I. lely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status	·	•				
1) Responsive to communication(s) filed on <i>Nove</i>	Responsive to communication(s) filed on <i>November 2, 2007</i> .					
2a) This action is FINAL . 2b) ⊠ This	a) This action is FINAL . 2b) ⊠ This action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	33 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>1-7 and 10-14</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-7 and 10-14</u> is/are rejected.						
7) Claim(s) is/are objected to.	7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examine	r.					
10) The drawing(s) filed onis/ are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
Copies of the certified copies of the prior		ed in this National Stage				
application from the International Bureau	· · · ·					
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)	•					
1) Notice of References Cited (PTO-892)	4) Interview Summary					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application 6) Other:						
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DETAILED ACTION

1. In view of the appeal brief filed on November 2, 2007, PROSECUTION IS HEREBY REOPENED. The non-final rejection is set forth below.

To avoid abandonment of the application, appellant must exercise one of the following two options:

- (1) file a reply under 37 CFR 1.111 (if this Office action is non-final) or a reply under 37 CFR 1.113 (if this Office action is final); or,
- (2) initiate a new appeal by filing a notice of appeal under 37 CFR 41.31 followed by an appeal brief under 37 CFR 41.37. The previously paid notice of appeal fee and appeal brief fee can be applied to the new appeal. If, however, the appeal fees set forth in 37 CFR 41.20 have been increased since they were previously paid, then appellant must pay the difference between the increased fees and the amount previously paid.

A Supervisory Patent Examiner (SPE) has approved of reopening prosecution by signing below.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-7 and 10-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over BELLAMY (U.S. Patent 4,253,144).

As to claim 4, BELLAMY teaches a method for dispatching tasks/commands in a computer system that includes a plurality of processors, the method comprising the steps of: determining the status of each of the plurality of processors, wherein a processor is idle if not executing any tasks (idle processor), wherein the processor can accept a new task if busy working on one or more tasks but has the capacity to process the new task (engaged processor), and wherein the processor cannot accept the new task if busy working on a maximum number of tasks the processor can execute (engaged processor); and dispatching the new tasks to an idle processor, if one exists (via determining first if there exists any available processor to handle a task/command by first determining and/or choosing an idle processor if one exists, if an idle processor does not exist, then choosing a non engaged processor, e.g. a processor which when it finishes its currently scheduled activities, will then be available for processing of the received command and message) (see col. 58, lines 3-20; col. 58, lines 29-38; col. 59, lines 9-21; col. 61, lines 37-46; col. 61, line 65 – col. 62, line 4; col. 62, line 60 – col. 63, line 19; abstract). BELLAMY does not teach that the commands/messages are threads to be executed. Official Notice is taken in that thread instructions are commands and that dispatching threads to processors for execution is well known by one of ordinary skill in the art at the time of the invention (see U.S. Patent 6,728,959 or 6,505,229 as examples of such). Therefore, it would be obvious that the commands/messages of BELLAMY are threads that are dispatched to be executed by processors. In addition, BELLAMY does not put limits on the types of processors used in the system and

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therefore it is an obvious design choice that the processors are multi-threaded processors.

As to claim 5, BELLAMY teaches if none of the plurality of processors is idle and if at least one of the plurality of processors can accept the new task / command, the thread dispatch mechanism dispatches the new task / command to one of the plurality of processors that can accept the new task / command (via determining first if there exists any available processor to handle a task/command by first determining and/or choosing an idle processor if one exists, if an idle processor does not exist, then choosing a non engaged processor, e.g. a processor which when it finishes its currently scheduled activities, will then be available for processing of the received command and message) (see col. 58, lines 3-20; col. 58, lines 29-38; col. 59, lines 9-21; col. 61, lines 37-46; col. 61, line 65 – col. 62, line 4; col. 62, line 60 – col. 63, line 19; abstract).

As to claim 6, BELLAMY teaches communication between processors for relaying commands / tasks wherein the processors have receive ports or receive queues for storing the commands/tasks (col. 10, lines 38-46). BELLAMY teaches determining first if there exists any available processor to handle a task/command by first determining and/or choosing an idle processor if one exists, if an idle processor does not exist, then choosing a non engaged processor, e.g. a processor which when it finishes its currently scheduled activities, will then be available for processing of the received command and message (see col. 58, lines 3-20; col. 58, lines 29-38; col. 59.

lines 9-21; col. 61, lines 37-46; col. 61, line 65 – col. 62, line 4; col. 62, line 60 – col. 63, line 19; abstract). Official Notice is taken in that receive queues fill up when an excessive number of messages are received and therefore, if the queue is filled, throttling is used such that no new messages are received / transmitted until some of the messages in the queue are handled (see EP 0735476 A1 as an example of such). It would be obvious to one of ordinary skill in the art that this functions in the teaching of BELLAMY also when it receives tasks for execution by the processors in their receive queues / ports and thereby the teachings of BELLAMY would obviously teach that if all of the plurality of processors cannot accept the new task (all receive queues are filled in engaged processors), the task dispatch mechanism waits for one of the plurality of processors to complete processing a task, thereby becoming a processor that can accept the new task, and then dispatches the task to the processor that can accept the new task (via the queue having room for the new message and thereby placing the message in the engaged processors queue for handling).

As to claim 13, BELLAMY teaches wherein all processors are made busy (engaged) with a first task/command before dispatching a second task / command to any processor (via determining and communicating with idle processors first before engaged processors) (see col. 58, lines 3-20; col. 58, lines 29-38; col. 59, lines 9-21; col. 61, lines 37-46; col. 61, line 65 – col. 62, line 4; col. 62, line 60 – col. 63, line 19; abstract).

As to claims 1-3 and 12, reference is made to an apparatus that corresponds to the method of claims 4-6 and 13 and is therefore met by the rejection of claims 4-6 and 13 above.

As to claims 7, 10, 11 and 14, reference is made to a program product that corresponds to the method of claims 4-6 and 13 and is therefore met by the rejection of claims 4-6 and 13 above.

Response to Arguments

4. Applicant's arguments with respect to claims 1-7 and 10-14 have been considered but are most in view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lewis A. Bullock, Jr. whose telephone number is (571) 272-3759. The examiner can normally be reached on Monday-Friday, 8:30 a.m. - 5:00 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Meng An can be reached on (571) 272-3756. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

January 18, 2008

TUAN DAM SUPERVISORY PATENT EXAMINER

LEWIS A. BULLOCK, JR. PRIMARY EXAMINER